

planet, and the description given by Professor Herschel of the appearance of the coloured belt in January, 1870, would apply exactly to the appearance of the belt in this drawing. I have brought the drawing for inspection, but it is so similar to the one which appears printed in colours in the last Number of the *Monthly Notices* that it will not be necessary to print this as well.

My principal object in communicating this Note is to request that any observers who have kept a record of the appearance of *Jupiter*, at a date previous to the year 1860, will look through their note-books, and if they can find a note of the equatorial belt appearing to be coloured previous to that date will communicate the same either to myself or to the Society.

Clapham, January 9th, 1871.

Ephemeris of the Satellites of Uranus. By A. Marth, Esq.

For 8^h Greenwich Mean Time.

		Ariel.		Umbriel.		Titania.		Oberon.	
		Pos.	Dist.	Pos.	Dist.	Pos.	Dist.	Pos.	Dist.
Jan.	11	236 ^o	12 ["]	113 ^o	17 ["]	118 ^o	23 ["]	49 ^o	39 ["]
	12	104	12	15	21	65	27	23	44
	13	324	14	300	17	22	33	1	47
	14	175	15	206	20	350	35	341	45
	15	24	14	127	18	314	30	317	41
	16	243	12	26	20	264	27	287	37
	17	111	12	314	18	215	31	253	36
	18	330	14	211	19	181	35	221	40
	19	179	15	140	19	148	32	197	45
	20	30	14	37	19	103	27	176	47
	21	251	12	326	20	51	29	155	45
	22	118	12	224	18	12	34	130	40
	23	325	15	151	20	340	34	98	36
	24	184	15	51	18	300	29	63	37
	25	35	14	336	20	248	27	34	42
	26	258	12	238	17	204	33	11	46
	27	124	13	161	21	171	35	350	47
	28	339	15	66	17	136	31	328	44
	29	188	15	346	21	87	27	302	38
	30	41	13	254	16	38	30	268	36
	31	266	12	171	21	2	35	235	38

		Ariel.		Umbriel.		Titania.		Oberon.	
		Pos.	Dist.	Pos.	Dist.	Pos.	Dist.	Pos.	Dist.
Feb.	1	131°	13"	81°	16"	329°	33"	207°	43"
	2	344	15	356	21	286	27	185	46
	3	193	15	270	16	233	29	165	46
	4	47	13	181	21	194	34	142	42
	5	273	12	98	16	161	34	113	37
	6	136	13	5	21	123	29	79	36
	7	348	15	286	11	71	27	47	39
	8	198	15	190	21	26	32	21	44
	9	54	13	113	17	353	35	359	47
	10	280	12	16	21	318	31	339	45
	11	142	14	301	18	270	27	314	41
	12	353	15	201	20	220	30	284	37
	13	202	14	127	18	184	35	250	37
	14	61	12	26	20	151	33	219	41
	15	288	12	314	19	109	28	195	45
	16	147	14	212	19	56	28	174	46
	17	357	15	140	19	16	33	152	44
	18	208	14	38	19	343	34	127	39
	19	68	12	326	20	305	29	95	36
	20	295	12	225	18	254	27	61	37
	21	152	14	151	20	209	32	32	42
	22	2	14	52	17	175	35	9	46
	23	213	14	336	20	140	31	348	46
	24	75	12	239	17	93	27	326	43
	25	301	13	162	21	43	30	299	38
	26	157	15	67	17	6	34	266	36
	27	6	15	347	21	333	33	233	38
	28	219	13	354	16	291	28	206	43
Mar.	1	82	12	171	21	239	28	183	46
	2	308	13	83	16	198	33	162	45
	3	162	15	356	21	165	34	139	42
	4	11	15	271	16	128	30	110	37
	5	225	13	181	21	78	27	77	36
	6	90	12	99	16	31	31	45	39
	7	314	13	6	21	256	34	19	44
	8	166	15	287	17	322	31	358	46
	9	16	14	191	20	276	27	336	44
	10	232	12	114	17	226	29	312	40
	11	98	12	16	20	188	34	282	36

Mr. Marth, Ephemeris of the Satellites of Uranus.

		Ariel.		Umbriel.		Titania.		Oberon.	
		Pos.	Dist.	Pos.	Dist.	Pos.	Dist.	Pos.	Dist.
		[°]	["]	[°]	["]	[°]	["]	[°]	["]
Mar.	12	319	14	301	17	155	33	248	36
	13	171	15	202	20	114	28	218	40
	14	21	14	128	18	65	27	193	44
	15	238	12	27	19	22	32	172	46
	16	105	12	314	18	348	34	150	43
	17	325	14	213	19	310	30	124	39
	18	175	15	140	19	261	27	93	36
	19	26	14	39	18	213	31	59	37
	20	246	12	326	19	178	34	30	41
	21	112	12	226	18	144	31	7	45
	22	330	14	152	20	99	27	346	45
	23	180	15	53	17	48	29	324	42
	24	31	13	337	20	10	33	296	37
	25	253	12	240	17	337	33	263	35
	26	119	12	162	20	297	28	231	38
	27	335	14	68	16	249	27	204	42
	28	185	15	347	20	202	32	182	45
	29	37	13	256	16	169	34	161	44
	30	260	12	172	21	133	30	137	40
	31	125	13	84	16	84	26	108	36
April	1	340	14	357	21	36	30	74	35
	2	189	14	272	16	0	34	43	39
	3	43	13	182	20	327	31	12	43
	4	268	11	100	16	282	27	356	45
	5	132	13	7	20	231	28	335	43
	6	345	14	287	16	192	33	310	39
	7	194	14	192	20	159	33	279	35
	8	50	12	115	17	120	28	245	36
	9	275	11	17	20	69	27	216	40
	10	137	13	302	17	24	31	192	44
	11	349	15	202	19	351	33	171	44
	12	199	14	129	18	315	30	149	42
	13	56	12	28	19	267	26	122	37
	14	283	12	315	18	218	29	90	35
	15	145	13	214	18	182	33	57	36
	16	354	15	141	18	149	31	29	41
	17	204	14	41	18	105	26	6	44
	18	63	12	327	19	54	27	345	44
	19	90	12	227	17	14	32	322	40
	20	149	14	153	19	341	32	294	36

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	Ariel.		Umbriel.		Titania.		Oberon.	
	Pos.	Dist.	Pos.	Dist.	Pos.	Dist.	Pos.	Dist.
April 21	359 ^o	14"	54 ^o	17"	303 ^o	28"	261 ^o	34"
22	210	13	338	20	251	26	228	37
23	71	11	242	16	207	31	202	41
24	297	12	153	20	173	33	180	44
25	154	14	69	16	138	30	160	43
26	3	14	348	20	90	26	135	39
27	215	13	257	16	41	29	106	35
28	78	11	175	20	4	33	72	35
29	304	12	85	16	331	31	41	38
30	159	14	358	20	289	26	16	42
May 1	8	14	273	15	237	27	355	44

In the night of Jan. 8 *Uranus* passed close to the place in the heavens, where it appeared on the evening of Jan. 11, 1787, when the two bright satellites were discovered by Herschel. In the interval between the two nights *Oberon* has performed 2278 whole revolutions and *Titania* 3523.

Ferndene, Gateshead, Jan. 18th, 1871.

Summary of Sun-spot Observations made with the Kew
Photo-Heliograph during the year 1870.

(Communicated by Messrs. Warren De La Rue, B. Stewart, and B. Loewy.)

Months.	Days of Ob- servation.	Days without Spots.	Numbers given to the New Groups in the Catalogue of Sunspots.	Number of New Groups.
January	11	0	No. 1126 to No. 1142	17
February	12	0	„ 1143 „ 1168	26
March	14	0	„ 1169 „ 1199	31
April	22	0	„ 1200 „ 1230	31
May	25	0	„ 1231 „ 1270	40
June	19	0	„ 1271 „ 1309	39
July	18	0	„ 1310 „ 1345	36
August	25	0	„ 1346 „ 1389	44
September	21	0	„ 1390 „ 1420	31
October	18	0	„ 1421 „ 1459	39
November	17	0	„ 1460 „ 1491	32
December	11	0	„ 1492 „ 1528	37
Total	213	0	No. 1126 to No. 1528	403

The year 1870 was characterised by an exuberance of solar energy which is without parallel since the beginning of systematic observations (*i. e.* since 1825). The number of observed groups far exceeds that of any previous year; and it appears also from a